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Role of platelet rich plasma in aiding periodontal tissue regeneration

Peran Platelet-Rich Plasma dalam Membantu Regenerasi Jaringan Periodontal

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Abstract

Background-The goal of periodontal therapy is to protect and maintain patient's natural dentition for his or her lifetime. More specifically, after periodontal regenerative surgery, the aim is to achieve complete wound healing and regeneration of periodontal unit. Purpose-To know the role of Platelet-rich plasma to promote periodontal tissue regeneration. Review-A recent innovation in dentistry is the preparation and use of platelet-rich plasma (PRP), an autologous product derived from whole blood through the process of gradient density centrifugation. Autologous PRP has been shown to be safe and effective in promoting the natural processes of wound healing, soft tissue reconstruction and bone reconstruction and augmentation. The potential value of PRP lies in its ability to incorporate high concentration suspension of the growth factors that is found in platelet. These growth factors are involved in wound healing and are postulated a promoters of tissue regeneration. Conclusion-Platelet-rich plasma is a concentrate autologous platelets that contain many growth factors, including PDGF, TGF- β , VEGF, EGF, and IGF-1 that can promote periodontal tissue regeneration

Keyword : platelet-rich, plasma, regeneration, periodontal, growth, factor,

Abstrak

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